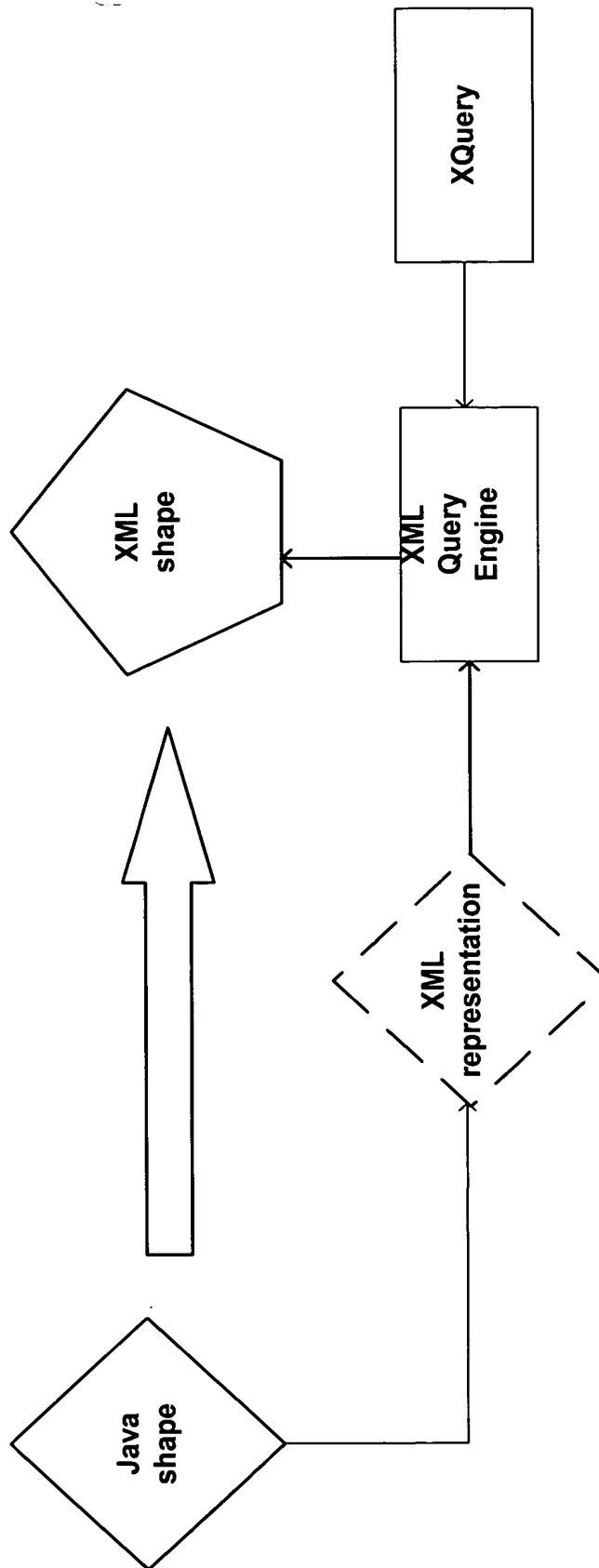


*Figure 1A*



*Figure 1B*

// XML to Java XQuery transformation

```
public class customer {
    int id;
    String name;
    String address;
}

/**
 * @wlw:transform xquery::
 * <Customer>
 * <name>{$po/customer/name}</name>
 * <id>{$po/customer/id}</id>
 * <address>{$po/customer/address}</address>
 * </Customer>
 */
Customer getCustomer(XML po);
```

// Java to XML transformation

```
public class PurchaseOrder {
    int id;
    int quantity;
    string street;
    string city;
    string zip;
}

/**
 * @wlw:transform xquery::
 * <po>
 * <id>{$po/id}</id>
 * <qty>{$po/quantity}</qty>
 * <address>{
 *     formatAddress($po/street, $po/city, $po/zip)
 * }</address>
 * </po>
 * ::
 */
XML poTransform(PurchaseOrder po);
```

***Figure 2***